## **ABSTRACT**

An reconfigurable array of variable conductive elements steering provided for reflecting, filtering and range across а wide radiation electromagnetic The reconfigurable array is combined with a frequencies. transmitting antenna to make a steerable antenna. reconfigurable array surrounds the transmitting antenna and reflects all transmissions except on selected radials where apertures in the reconfigurable array are formed for permitting transmission lobes. The reconfigurable arrays can be arranged in stacked layers to make transceiving Communications networks using the multiband antennas. steerable antennas and arrays are also disclosed.